INTERNATIONAL SEARCH REPORT

International application No.

		PCT/JPZ	004/015104
A. CLASSIFICATION OF SUBJECT MATTER			
Int.Cl ⁷ F02M27/02			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
Int.Cl ⁷ F02M27/02, F02M21/02			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Jitsuyo Shinan Koho 1922—1996 Toroku Jitsuyo Shinan Koho 1994—2005 Kokai Jitsuyo Shinan Koho 1971—2005 Jitsuyo Shinan Toroku Koho 1996—2005			
Rokal diesdyd dilliai Rollo 1971-2000 diesdyd dilliai loloku Rollo 1990-2000			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap		Relevant to claim No.
Y	JP 6-159096 A (General Elect	ric Co.),	1-7,10
A	07 June, 1994 (07.06.94),		8,9,11,12
	Full text; all drawings & US 5275000 A		
	a 03 3273000 A		
Y	JP 2003-184667 A (Honda Moto	or Co., Ltd.),	1-7,10
A	03 July, 2003 (03.07.03), 8,9,11,12		
	Full text; all drawings		
	& US 2003/0168024 A1	j	
Y	JP 2000-213444 A (Komatsu Lt	d)	1,3-5
	02 August, 2000 (02.08.00),		
	Full text; all drawings		
	(Family: none)		
		·	
			· · · · · · · · · · · · · · · · · · ·
Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents: "T" later document published after the international filing date or priority			
"A" document defining the general state of the art which is not considered to be of particular relevance date and not in conflict with the application but cited to understand the principle or theory underlying the invention			
	cation or patent but published on or after the international	"X" document of particular relevance; the cla	
filing date "L" document w	high may throw doubts on priority claim(c) or which is	considered novel or cannot be conside step when the document is taken alone	red to involve an inventive
cited to esta	hich may throw doubts on priority claim(s) or which is blish the publication date of another citation or other	"Y" document of particular relevance; the cla	imed invention cannot be
special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means		considered to involve an inventive step when the document is combined with one or more other such documents, such combination	
"P" document published prior to the international filing date but later than the		being obvious to a person skilled in the art	
priority date		"&" document member of the same patent far	nily
·			
		Date of mailing of the international search	
uo Janu	ary, 2005 (06.01.05)	25 January, 2005 (25	D.UI.UD)
		·	
Name and mailing address of the ISA/		Authorized officer	
Japanese Patent Office			
Facsimile No.		Telephone No.	